

ABSTRACT OF THE DISCLOSURE

2 The present invention is directed to a novel process for making Group II metal  
3 overbased sulfurized alkylphenols, which process uses alkylene carbonate as  
4 both a source of carbon dioxide and alkylene glycol. In particular, under the  
5 reaction conditions using ethylene carbonate, carbonation time is reduced to  
6 about one quarter the time taught in the prior art to make Group II metal  
7 overbased sulfurized alkylphenol compositions. The present invention is also  
8 directed to a detergent-dispersant additive composition comprising a Group II  
9 metal overbased sulfurized alkylphenols, wherein the Group II metal  
10 overbased sulfurized alkylphenols have a reduced color as measured by  
11 ASTM Test No. D 6045 and an increased hydrolytic stability as measured by  
12 a modified ASTM Test No. 2619. The present invention is also directed to a  
13 process using ethylene carbonate or alkyl-substituted ethylene carbonate and  
14 water for delivering in situ equimolar quantities of ethylene glycol and carbon  
15 dioxide for use as reactants in chemical reactions.